

Photosynthesis Notes Review

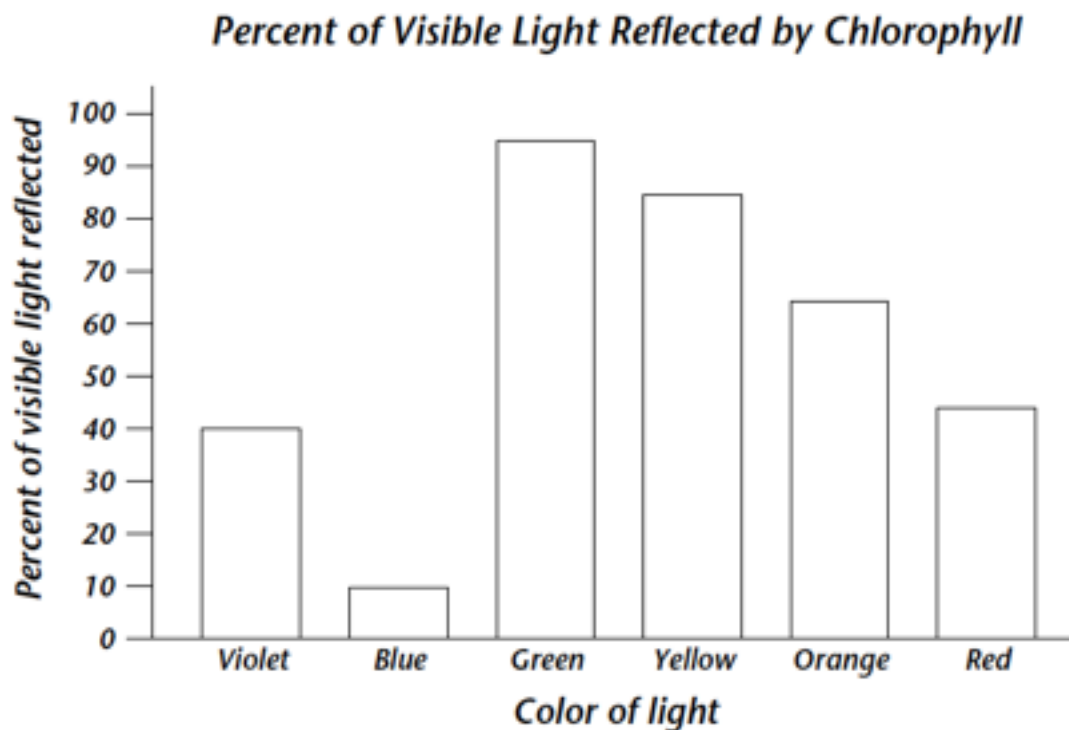
Name: _____ Date: _____

Table: _____ Section: _____

- 1) What is photosynthesis and how do plants use it to obtain energy?
- 2) What chemical equation sums up the events of photosynthesis?
- 3) What are the raw materials needed for photosynthesis? What are the products of photosynthesis?
- 4) Would you expect a plant to produce more oxygen on a cloudy day or a sunny day? Clearly explain your reasoning.
- 5) An insect eats a leaf. Explain how the insect depends on the sun for energy.

Performance Task: Chlorophyll and the Color of Light

A pigment is a colored chemical compound that absorbs light. You can think of a pigment as a kind of sponge that absorbs light of all colors except the ones that it transmits and reflects. The colors that you see are the colors of light that the pigment reflects. The bar graph below shows the percentages of light of different colors that are reflected by the plant pigment chlorophyll.



Answer the questions on a separate sheet of paper:

1. Which color of light does chlorophyll reflect most? About what percent of light of this color does chlorophyll reflect?
2. Which color of light does chlorophyll absorb most? About what percent of light of this color does chlorophyll absorb?
3. At least 50 percent of light of a given color must be reflected to be visible. Which colors of light do you see when you look at a “green” leaf?
4. Which colors of light do you not see when you look at a “green” leaf?
5. Explain in your own words how chlorophyll makes a leaf look green.